# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



February 8, 2023

Ron Hensley, P.E. THE Group 300 Branding Iron Rd. SE Rio Rancho, NM 87124

RE: Petroglyph Plumbing 3031 Painted Rock NW Engineer's Stamp Date: 2/6/2023

**Hydrology File: G10D029** 

Dear Mr. Hensley:

Based upon the information provided in your submittal received 2/6/2023, the Grading & Drainage Plan is approved for Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

### PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval / comments.

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Tieque Cha

Planning Department, Development Review Services



# City of Albuquerque

# Planning Department Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: PETROGLYPH PLUMBING	Building Permit #:	Hydrology File #: G10
DRB#:	EPC#:	Work Order#:
Legal Description: TRACT 5A2-A1-4, VOLCA	ANO BUDINESS PARK PHAS	SE 2
City Address: 3031 PAINTED ROCK N.W.		
Applicant: THE Group		Contact: Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho		
Phone#: 505-410-1622	Fax#:	E-mail: ron@thegroup.cc
Owner: PETROGLYPH PLUMBING AND HEATI	N	Contact: Curtis Witham
Address: 8248 Meadowbrook Avenue, Albuquer		
Phone#: 505-352-1169	Fax#:	E-mail: cdwitham@msn.com
TYPE OF SUBMITTAL: PLAT (# 0 IS THIS A RESUBMITTAL?:  DEPARTMENT: TRAFFIC/ TRANSPO	Yes No	
Check all that Apply:  TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICAT PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMI ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TO TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	T APPLIC  CL)	PE OF APPROVAL/ACCEPTANCE SOUGHT:  BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY  PRELIMINARY PLAT APPROVAL  SITE PLAN FOR SUB'D APPROVAL  SITE PLAN FOR BLDG. PERMIT APPROVAL  FINAL PLAT APPROVAL  SIA/ RELEASE OF FINANCIAL GUARANTEE  FOUNDATION PERMIT APPROVAL  GRADING PERMIT APPROVAL  SO-19 APPROVAL  PAVING PERMIT APPROVAL  GRADING/ PAD CERTIFICATION  WORK ORDER APPROVAL  CLOMR/LOMR  FLOODPLAIN DEVELOPMENT PERMIT  OTHER (SPECIFY)
DATE SUBMITTED: 7/25/22		on Hensley
COA STAFF:	ELECTRONIC SUBMITT	CAL RECEIVED:

FEE PAID:\_\_\_

### DRAINAGE INFORMATION

LOCATION & DESCRIPTION THE PROPOSED SITE IS AN UNDEVELOPED TRACT ON PAINTED ROCK THAT HAS BEEN PREVIOUSLY GRADED..

FLOODPLAIN STATUS THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0103H, DATED NOVEMBER, 2016 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN.

0.5500 0.7525 0.2733 1535

0.8687 0.2186 4957

THE SITE DRAINS TO AN EXISTING DRAINAGE EASEMENT AND IS WITHIN THE AREA OF THE MASTER DRAINAGE PLAN OF "G10-D029 VOLCANO BUSINESS PARK" AND IS RESTRICTED TO THE DISCHARGE RATES DEFINED IN THAT REPORT. BASIN OS-1 OF THE REPORT CONTAINS THE SITE AND IS RESTRICTED TO A DISCHARGE 0.50 CFS/ACRE.

THE SITE WILL BE IMPROVED WITH MANUFACTURED STRUCTURES. THE SITE RUNOFF WILL BE ROUTED TO THE POND DEPICTED TO RETAIN THE MAJORITY (88%) OF THE TOTAL RUNOFF TO RESTRICT DISCHARGE FROM THE SITE TO 0.38 CFS. THE DISCHARGE TO THE DRAINAGE EASEMENT DISCHARGE FROM THE POND WILL BE CONTROLLED WITH A CHANNEL WEIR WITH A PEAK FLOW OF 0.32 CFS.

METHODOLOGY
THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE WEIGHTED E METHOD..

AREA TREATMENT A TREATMENT B TREATMENT C TREATMENT D WEIGHTED E

0 9.6% 3200 24.8% 8308 65.6% 21990 1.7758

EXISTING SIDEWALK —

TO BE REMOVED

0% 0

FL=49.96-

FL=50.12~

FL=50.75~

 $\times \emptyset$ 

PRECIPITATION
THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS WITH A 24 HOUR VOLUME. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 6.

EQUATIONS:
WEIGHTED $E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Arc$
24 HOUR VOLUME = $V_{360}+(P_{24}-P_6)*A_D = 5,554$ CU.FT.
FLOW = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

33498 | 100% 33498 | 0% 0 | 0% 0

FND CL MONUMENT "PS 11993"

ELEVATION=5150.59

TABLE 6.2	2.13 EXCESS	S PRECIPIT	ATION,	E (IN.) - 6 HC	OUR STORM	TABLE 6.2.14 PEAK DISCHARGE (CFS/ACRE)						
Zone	А	В		С	D	Zone	A	В	С	D		
1	0.55	0.55 0.73		0.95	2.24	1	1.54	2.16	2.87	4.12		
	[0.00, 0.08	8] [0.01, (	0.22]	0.12, 0.44]	[0.72, 1.24]		[0.00, 0.24]	[0.03, 0.76]	[0.47, 1.49]	[1.69, 2.89]		
									i			
						ALLOWED						

1.18

TRACT

5A2 - A1 - 3

FP=5151.41

TRACT 5A2-A (0.769 AC.)

FP=5151.41

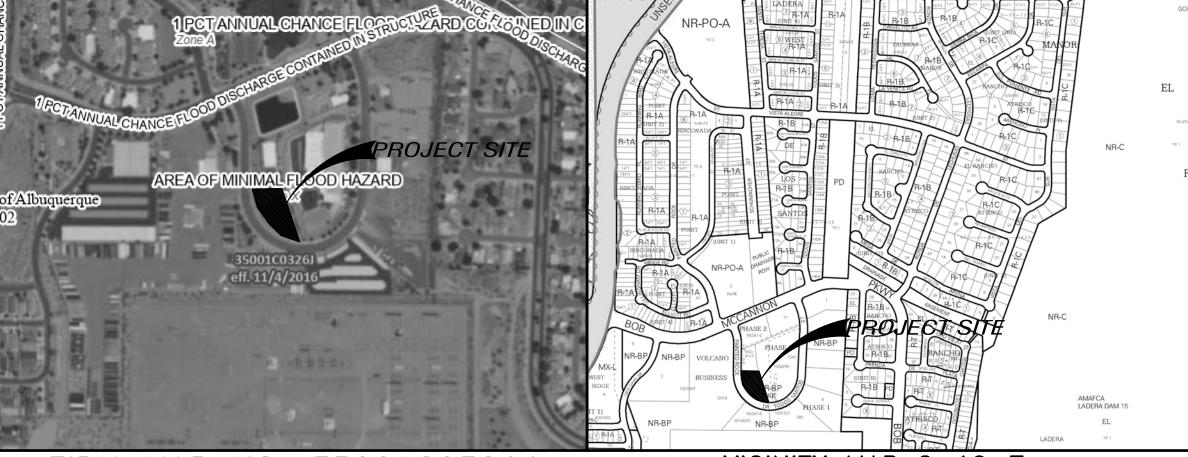
TC 51.35

HU	JR VOL	JME. THIS	S SHE IS W	ITHIN ZON	E 1 AS IDE	NIIFIED IN	THE CITY	OF ALBO	QUER	QUE DEVELO	PMENT PRO	CESS MANU	AL, CHAP	IER 6.		
IN.) - 6 HOUR STORM TABLE 6.2.14 PEAK DISCHARG					GE (CFS/ACRE) HYDRAULICS						CIPOLLETTI DISCHARGE WEIR					
С		D	Zone	Α	В	С	D	SII	SIDEWALK CUVERT OR 2' CURB OPENING				Q=CH <sup>2.5</sup> C=2.54*tan(152/2)			
0.9	5	2.24	1	1.54	2.16	2.87	4.12		Q=CLH <sup>3/2</sup>							
12, 0.44] [0.72, 1.24]			[0.00, 0.24] [0.03, 0.76] 0.47, 1.49] 1.69, 2.89]					<u> </u>	WIDTH (L) DEPTH (H) FLOW (Q)			WIDTH ( L)	DEPTH	  FLO\		
I		1	ALLOWED						<u> </u>	(ft.)	(ft.)	(cfs)	С	(ft.)	(H)	(c
$1_{\rm V}$	OLUME	FLOW	FLOW		ALLOWED			2	2.7	2	0.5	1.91		(1.67)	(ft.)	, ,
1	cuft.)	(cfs)	(cfs)	(cfs)	(cfs/ac)							<u>.                                      </u>	10.16	1.34	0.25	0.
╈	4525	1 440	0.20	(5.5)	(0.0) 40)								R	ESEEDED EAR	TH	

-5148-FL 48.75

**−5147**(2)





FIRM MAP NO. 35001C0326J

# VICINITY MAP G-10-Z

# GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO 8.
- ANY EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
- THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBLITY OF THE PROPERTY OWNER.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

### KEYED NOTES

- 2 @ 2' CURB OPENINGS
- 2. DISCHARGE WEIR AND SPILLWAY PER DETAIL 1/C1

## REQUIRED WATER QUALITY VOLUME

0.32

SURFACE

DETENTION / WATER QUALITY POND

RETENTION VOLUME = 4,361 CU.FT.

DETAINED WSEL VOLUME = 385 CU.FT.

TOTAL WSEL VOLUME = 4,746 CU.FT.

CRITERIA" CGP 2.2.14BN.

PNM\\\ASEMEN

TC 50.92-

~EG=49.61

~EG=49.08

TC 50.08

EXISTING SIDEWALK -

TO BE REMOVED

DETENTION POND SIDE SLOPES NEED TO STABILIZED

WITH NATIVE GRASS SEED WITH AGGREGATE MULCH

OR EQUAL. MUST SATISFY THE "FINAL STABILIZATION

100 YR WSEL = 5148.98

**OUTFALL SECTION** 

SITE DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

SITE DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RUNOFF RETENTION ON THE SITE IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA \* 0.42/12 IN CUBIC FEET.

IMPERVIOUS AREA = 21,990 SQ.FT. REQUIRED VOLUME = 21.990 \* 0.42/12 = 770 CU.FT.VOLUME PROVIDED = 4.067 CU.FT.

SIDEWALK

POND SIDES SHALL BE 4-6" COBBLES 3:1 MAX TOP (WSEL) OF POND ELEV PLACED 12" DEEP OVER FILTER FABRIC — BOTTOM SHALL BE SEEDED. - BOTTOM OF POND ELEV

City of Albuquerque Development Review Services **HYDROLOGY SECTION APPROVED** 2/8/2023 BY: G10D029

### **EROSION CONTROL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

THAT GETS INTO EXISTING RIGHT-OF-WAY.

- 4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LEGEND

# SLOPE/FLOW ARROW EL=11.28 PROPOSED ELEVATION 66.33 EXISTING ELEVATION GRADE BREAK - 5000 — EXISTING CONTOUR EXISTING CONTOUR PROPOSED EASEMENT EXISTING WALL PROPOSED WALL

SCALE: 1" = 30'

## **CONSTRUCTION NOTES**

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE GROUP. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.



300 BRANDING IRON RD. SE RIO RANCHO, NEW MEXICO 87124 Phone:(505) 410-1622

DEVELOPMENT MANAGEMENT CONSULTANTS

PROFESSIONAL CONSTRUCTION MANAGERS & CONSTULTING ENGINEERS 9320 Menaul Blvd. NE, ste. D Albuquerque, NM 87112

Office: (505) 296-7100 DMC Fax: (505) 296-7105 (D ROCK PAINTED PAINTED G -PROJECT NUMBER-

A WH RESP CONT CONT PROJI DRAW MAY C THEIR 2 DU INCON REPRC DRAWM

CK N N N

8 9 9

国系

3031 PAINTE ALBUQUEF

-PROJECT PROGRESS-PERMIT

CHECKED BY- / -APPROVED BY REH / REH JULY, 22, 2022

AS NOTED